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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/505,259	08/20/2004	Seppo Vesterinen	59643.00481	3815
32294 7590 08/07/2007 SQUIRE, SANDERS & DEMPSEY L.L.P. 14TH FLOOR			EXAMINER	
			PATEL, JATIN K	
8000 TOWERS CRESCENT TYSONS CORNER, VA 22182		·	ART UNIT	PAPER NUMBER
			2609	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/505,259	VESTERINEN, SEPPO				
Office Action Summary	Examiner	Art Unit				
	Jatin K. Patel	2609				
The MAILING DATE of this communicati						
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR I WHICHEVER IS LONGER, FROM THE MAILI  - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communica  - If NO period for reply is specified above, the maximum statutory  - Failure to reply within the set or extended period for reply will, b Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	NG DATE OF THIS COMMUNI CFR 1.136(a). In no event, however, may a lion. period will apply and will expire SIX (6) MOI y statute, cause the application to become A	CATION. reply be timely filed  NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status	C					
1)⊠ Responsive to communication(s) filed or	20 August 2004.					
2a) This action is <b>FINAL</b> . 2b)						
. 3) Since this application is in condition for a	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice u	nder <i>Ex parte Quayle</i> , 1935 C.[	D. 11, 453 O.G. 213.				
Disposition of Claims	•					
4) ⊠ Claim(s) 1-21 is/are pending in the applie 4a) Of the above claim(s) is/are w 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-21 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction	ithdrawn from consideration.					
Application Papers						
9) The specification is objected to by the Ex 10) The drawing(s) filed on 20 August 2004 is Applicant may not request that any objection Replacement drawing sheet(s) including the 11) The oath or declaration is objected to by	s/are: a)⊠ accepted or b)⊡ ol to the drawing(s) be held in abeya correction is required if the drawing	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of:  1. Certified copies of the priority docu 2. Certified copies of the priority docu 3. Copies of the certified copies of the application from the International I	uments have been received.  uments have been received in A e priority documents have beer  Bureau (PCT Rule 17.2(a)).	Application No n received in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892).  2) Notice of Draftsperson's Patent Drawing Review (PTO-9		Summary (PTO-413) (s)/Mail Date				
Notice of Draftsperson's Patent Drawing Review (PTO-9     Information Disclosure Statement(s) (PTO/SB/08)     Paper No(s)/Mail Date <u>8/20/2004</u> .		Informal Patent Application				

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26-35).

#### **DETAILED ACTION**

### Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-15, and 17-20 are rejected under 35 U.S.C. 102(e) as being anticipated over Sharp (US Patent 6694471, Filed 12/27/2000).

Regarding claim 1, an internet protocol based system comprising a plurality of entities, at least two of said entities being arranged to use SCTP for signaling there between, said SCTP signaling comprising a source port number, a destination port number, and connection identity information relating to a connection between at least two of said entities (fig 1, fig 2, column 3, line 7-10, line 52-58 and column 4, line 26-35).

Regarding claim 2, most of limitations teaches as applied to claim 1 above, wherein said connection identity information comprises address information (fig 2, column 4, line

**Regarding claim 3**, most of limitations teaches as applied to claim 2 above, wherein said address information identifies at least one other further entity (fig 1, one of box 12 might be user terminal or server).

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Regarding claim 4, most of limitations teaches as applied to claim 1 above, wherein said connection identity information comprises information identifying an application (SCTP is like TCP connection oriented protocol, and maintain connection (relationship) during communication column 3, line 53-58 and column 2, line 40-68).

**Regarding claim 5**, most of limitations teaches as applied to claim 1 above, wherein said connection identity information identifies a connection flow (column 2, line 40-68, fig 1, fig 2).

**Regarding claim 6**, most of limitations teaches as applied to claim 1 above, wherein said connection identity information is provided in an SCTP packet (fig 2, source port number and destination port number).

**Regarding claim 7**, most of limitations teaches as applied to claim 6 above, wherein said connection identity information is provided in the data chunk part of the SCTP packet (fig 2, and 3).

**Regarding claim 8**, most of limitations teaches as applied to claim 7 above, wherein said connection identity information is provided in a payload protocol identifier field (fig 3, box 88).

Regarding claim 9, most of limitations teaches as applied to claim 7 above, wherein said connection identity information is provided in a field between a stream sequence number field and user data (fig 3, item 84, 86 stream identifier and stream sequence number respectively).

**Regarding claim 10**, most of limitations teaches as applied to claim 6 above, wherein said connection identity information is provided in a header for the SCTP packet (fig 2,

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item 52 is header).

**Regarding claim 11**, most of limitations teaches as applied to claim 6 above, wherein said address information is provided in a separate field in said SCTP packet (fig 2, source and destination port number).

Regarding claim 12, most of limitations teaches as applied to claim 1 above, wherein at least one of the two entitles is arranged to provide further address information relating to at least one of said two entities (fig 2, source entity and destination entity by their port number).

Regarding claim 13, most of limitations teaches as applied to claim 1 above, wherein at least one of said two entities comprises means for sending and/or receiving SCTP packets to and/or from the other of said two entities (fig 1, 2 two different user terminal or server).

Regarding claim 14, most of limitations teaches as applied to claim 1 above, wherein at least one of said two entities comprises means for setting up SCTP associations (column 4, line 27-35, fig 2).

Regarding claim 15, most of limitations teaches as applied to claim 1 above, wherein at least one of said two entities comprises means for receiving status information relating to SCTP associations (column 4 line 63 to column 5 line 5, sending acknowledgement to sender to confirm receiving status).

**Regarding claim 17**, most of limitations teaches as applied to claim 1 above, wherein at least one of said two entities comprises means for adding said connection identity information of said further entity to a SCTP packet (fig 2, source and destination

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information).

**Regarding claim 18**, most of limitations teaches as applied to claim 1 above, wherein said further entity comprises at least one of the following: user terminal, user, group of users, service, network, server, cell or BTS (user terminal in fig 1, item 12).

Regarding claim 19, most of limitations teaches as applied to claim 1 above, wherein one of said entities is one of the following: base station; controller; radio network controller; core network; radio network access server; gateway or server and (fig 1 consider server 1 on LHS box 12); the other of said entities is one of the following: base station; controller; radio network controller; core network; radio network access server; gateway or server (fig 1 consider server 2 on RHS box 12).

**Regarding claim 20**, a method for use in an internet protocol based system comprising a plurality of entities, comprising the steps of:

sending SCTP transport signaling information between two of said entities, said SCTP signaling information comprising a source port number, a destination port number, and connection identity information relating to a connection between said two entities (fig 1, fig 2, column 3, line 7-10, line 52-58 and column 4, line 26-35).

Regarding claim 21, an entity for use in a internet protocol based system, said entity comprising means for sending to another entity an SCTP transport packet, said entity being arranged to include in said packet a source port number, a destination port number, and connection identity information relating to a connection between at least

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two of said entities (fig 1, fig 2, column 3, line 7-10, line 52-58 and column 4, line 26-35).

## Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
  - 1. Determining the scope and contents of the prior art.
  - 2. Ascertaining the differences between the prior art and the claims at issue.
  - 3. Resolving the level of ordinary skill in the pertinent art.
  - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 5. Claim 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sharp in view of Willars (US Pub 2001/005145, File date 04/26/2001).

Regarding claim 16, Sharp teaches most of limitations as applied to claim1 above. Sharp does not teach to forwarding SCTP packets to a radio network layer in dependence on said connection identity information of said further entity.

Willars teaches to forwarding SCTP packets to a radio network layer in dependence on said connection identity information of said further entity (fig 5A, 5B, item 88 SCTP is used for transporting the signaling over IP network).

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It would have been obvious to a person of ordinary skill in the art at the time the invention was made to use SCTP for transporting the signaling over IP network from Willars to Sharp to preserve general architecture and principle of 3GPP UTRAN R99 and minimal impact on application layer protocols (Willars item # 0147).

#### Conclusion

The prior art made of record and not relied upon is considered pertinent applicant's disclosure.

\*Turina (US Pub 20020075900) disclosed regarding Signaling transport protocol for load

\*Walker (US 20030193696) disclosed regarding Voice and Fax over IP call establishment

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jatin K. Patel whose telephone number is 571-270-1839. The examiner can normally be reached on 8-5 Mon-Fri Est.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Garber can be reached on 571-272-2194. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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